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# Washington University Record, March 14, 2003

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# Record

March 14, 2003

Volume 27 No. 23



Washington University in St. Louis



KEVIN LOWMYER

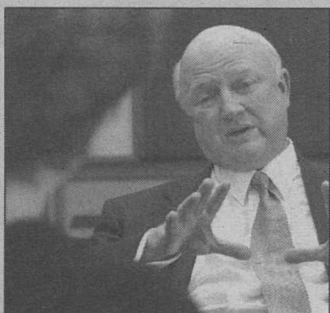
## Science building dedicated in style

Approximately 350 members of the University community attended the March 7 dedication of the Arts & Sciences Laboratory Science Building.

AT TOP, tour attendees listen to Andre d'Avignon, Ph.D., research chemist and chemistry department research staff and technical space director in Arts & Sciences, as he describes how students and faculty use the laboratories in the new building.

AT RIGHT, attendees enjoy refreshments in the Ronald and Karen Rettner Gallery.

BELOW, Samuel W. Bodman, Ph.D., deputy secretary of the U.S. Department of Commerce, is interviewed by reporter Rachel Melcer of the *St. Louis Post-Dispatch* before giving an invited lecture at the dedication. In his lively talk, Bodman discussed the convergence of disciplines in modern science and called the new building a "center of hope and inspiration." David R. Harvey, Ph.D., chairman and chief executive officer of Sigma Aldrich Corp., also spoke.



KEVIN LOWMYER

## Stardust examined up close for 1st time

Breakthrough enables  
new way to study the  
history of the universe

BY LINDA SAGE

For the first time, scientists have identified and analyzed single grains of silicate stardust in the laboratory.

This breakthrough, reported in the Feb. 27 issue of *Science Express*, provides a new way to study the history of the universe.

"Astronomers have been studying stardust through telescopes for decades," said first author Scott Messenger, Ph.D., senior research scientist in the University's Laboratory for Space Sciences. "And they have derived models of what it must be like, based on wiggles in their spectral recordings."

"But they never dreamed it would be possible to look this closely at a grain of stardust that has been floating around in the galaxy."

Most stardust is made of tiny silicate grains, much like dust from rocks on Earth. Away from city lights, you can see the dust as a dark band across the Milky Way. This dust comes from dying and exploded stars.

Scientists think stars form when these dust clouds collapse and that some of this dust became trapped inside asteroids and comets when our own sun formed.

The researchers found the stardust in tiny fragments of asteroids and comets' interplanetary dust particles (IDPs) collected 20 kilometers above Earth by NASA planes. A typical IDP is a mish-mash of more than 100,000 grains

See **Stardust**, Page 6

"He made us better and St. Louis better." — William H. Danforth

## Trustee Van Cleve dies

BY ANDY CLENDENNEN

William M. Van Cleve, a life trustee and former chairman of the Board of Trustees, died Friday, Feb. 28, 2003, at the skilled care unit at No. 2 McKnight Place in Ladue, Mo. He was 73.

As chairman from 1993-95, he provided invaluable leadership during a critical period of transition at the University. Upon the retirement of Chancellor William H. Danforth, Van Cleve chaired the search committee for the University's 14th chancellor — Mark S. Wrighton.

A 1953 graduate of the School of Law, Van Cleve was first elected to the Board of Trustees in 1983.

Van Cleve's friends will remember him as a great man who combined keen intelligence with a loving heart, wisdom with marvelous humor, precision with tolerance, and a passion for work with tremendous love for his wife, his family and his many friends.

"In the last years, he had more than his share of illness and suffering," said Danforth, chancellor emeritus and vice chairman of the Board of Trustees. "But looking back, he also had more than the normal allotment of accomplishments, a great family, many devoted friends who loved him and would do anything for him."

"He loved the game of life with its many challenges. He made us

See **Van Cleve**, Page 7



Van Cleve

## Mouse virus may help understanding of cruise ship epidemics

BY DARRELL E. WARD

A close relative of a common, little-understood human virus that causes an estimated 23 million episodes of intestinal illness, 50,000 hospitalizations and 300 deaths each year has been discovered in mice.

The finding by School of Medicine scientists was reported in the March 7 issue of the journal *Science*.

Discovery of the new virus, known as murine norovirus 1 (MNV-1), may lead to a better understanding of its disease-

causing cousins known as Norwalk viruses, or human noroviruses (HNVs).



Virgin

ments and cause debilitating diarrhea and vomiting.

"We know very little about

human noroviruses because they cannot be grown in the laboratory or in animals," said study leader Herbert W. Virgin IV, M.D., Ph.D., professor of pathology and immunology and associate professor of molecular microbiology. "This new mouse virus will, for the first time, allow us to study this important class of human pathogens."

Virgin and his colleagues discovered the virus in a strain of immune-deficient mice that were being reared for use in other research. When five of six mice

See **Virus**, Page 3



MARY RUTINS

**The face of intensity** Bears' junior guard Lesley Hawley (23) and senior forward Jennifer Rudis defend against Illinois Wesleyan University's Elisa Ettner during the NCAA Division III Women's Basketball Tournament second-round game March 7 at the Field House. WUSTL used a 19-0 run early in the second half to win 80-56 and advance to the Sweet Sixteen. The 25-1 Bears meet 23-4 St. Norbert College today at Hardin-Simmons University in Abilene, Texas, for a berth in the Elite Eight.

► For more details, see **Sports**, Page 6.



## Trustees hear reports on chemistry initiatives

At its March 7 meeting, the Board of Trustees received reports on chemistry research and education from Edward S. Macias, Ph.D., executive vice chancellor and dean of Arts & Sciences, and Joseph J.H. Ackerman, Ph.D., the William Greenleaf Eliot Professor and chair of the Department of Chemistry in Arts & Sciences, according to Chancellor Mark S. Wrighton.

After the chancellor's report by Wrighton, Macias and Ackerman outlined the research and teaching initiatives undertaken by the chemistry department.

Their presentation served as an introduction to the dedication of the new Arts & Sciences Laboratory Science Building that immediately followed the trustee gathering. Keynote speakers for the dedication were Samuel W. Bodman, Ph.D., deputy secretary of the U.S. Department of Commerce, and David R. Harvey, Ph.D., chairman and chief executive officer of Sigma Aldrich Corp.

In his report to the trustees, Wrighton presented an overview of the activities now in planning stages for the celebration of the University's 150th anniversary, which begins with Founders Week Sept. 14-20. He noted that a University open house for the community will launch the celebrations on Sept. 14, followed by a series of events at the University involving major speakers and events over a six-day period.

Wrighton also revealed that an environmental initiative involving students and faculty is in preliminary stages, and that a

150th-anniversary exhibit would be shown in the Gallery of Art in Steinberg Hall.

Reporting on the status of admissions, Wrighton noted that applications for the fall 2003 freshman class topped 20,000, a 4 percent increase over the prior year. He said it is the strongest group of applicants in the University's history.

He added that more than 1,300 applications have been received for the new University Scholars Program, which allows high school seniors to apply simultaneously for admission to an undergraduate program as well as to one of 11 graduate or professional degree programs.

In reviewing the status of the Campaign for Washington University, Wrighton said three installations have recently been scheduled or taken place for endowed professorships, bringing the total of professorships created during the campaign to 115.

In other action, the trustees supported memorial resolutions and observed a moment of silence in memory of two trustees who recently passed away — Robert Brookings Smith and William M. Van Cleve.

The trustees heard reports from the following standing committees: audit, development, educational policy, Hilltop finance, Medical finance, investments, undergraduate life, research-graduate affairs and the Alumni Board of Governors.

The meeting adjourned and was immediately followed by the dedication of the Arts & Sciences Laboratory Science Building.

The next trustee meeting is scheduled for May 2.



**Intersecting science and journalism** (From right) Madeleine Jacobs, editor-in-chief of *Chemical & Engineering News*, visits with Chancellor Mark S. Wrighton and Joseph J.H. Ackerman, Ph.D., the William Greenleaf Eliot Professor and chair of the Department of Chemistry in Arts & Sciences, before a seminar she presented Feb. 27 in the new Arts & Sciences Laboratory Science Building. Jacobs addressed "The Challenges of Editing the Newsmagazine of the Chemical World." The weekly publication is known as the best-read chemical magazine in the world and has a circulation of 150,000.

## American Indian Awareness Week March 17-22

BY JESSICA N. ROBERTS

An American Indian powwow, a film and presentations by Kerry Bird and Rebecca Tsosie are among the highlights of the University's American Indian Awareness Week March 17-22.

The theme is "Carrying on the Wisdom of Our Ancestors."

Bird is a senior consultant and human resources manager for ProGroup Inc. Tsosie is the Lincoln Professor of Native American Law and Ethics and executive director of the Indian Legal Program at Arizona State University.

The annual powwow and awareness week allow Washington University's American Indian students to share their unique cultures with the rest of the campus and the St. Louis community. The events are free and open to the public.

The Kathryn M. Buder Center for American Indian Studies in the George Warren Brown School of Social Work, the School of Law

and the American Indian Student Association are co-sponsoring the festival. First-year GWB students Pamela Begay and Monique Giago are chairing the events.

On March 17, Buder Center students and staff will sponsor a sampling of traditional and contemporary American Indian foods — such as fry bread, wild rice and corn soup — from 11 a.m.-1 p.m. in the Goldfarb Hall Student Commons.

Bird, a GWB alumna tribally affiliated with the Sisseton-Wahpeton Dakota Lumbee, will present the Alumni Lecture from noon-1 p.m. March 18 in Brown Lounge in Brown Hall. A former president of the National Indian Education Association, Bird will address the importance of education in carrying on the wisdom of American Indian ancestors.

*The Fast Runner* will be the featured film from 6-9 p.m. March 19 in Goldfarb Hall, Room 359. This fictional movie follows the family life and struggles of an Inuit Clan in Northern

Canada. A discussion will follow.

Tsosie, a member of the Yaqui Tribe, will speak on and discuss cultural heritage law from noon-1 p.m. March 20 in the Bryan Cave Moot Courtroom in Anheuser-Busch Hall. A small lunch will be provided.

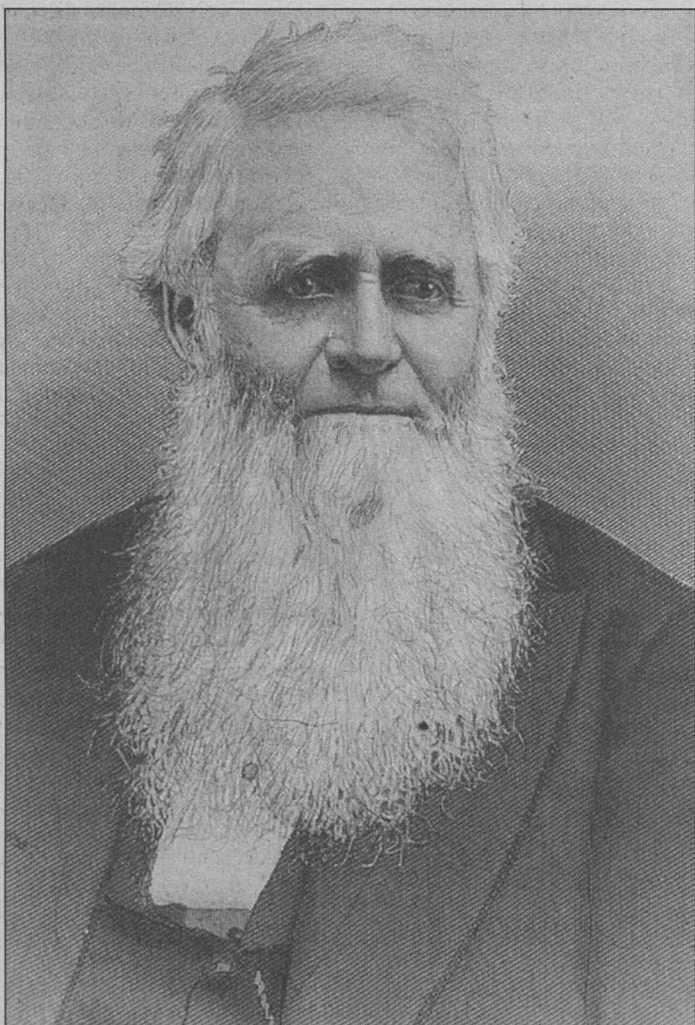
On March 21, the Buder Center will hold a seminar on creating American Indian arts and crafts. Visitors will learn how to make items such as beaded earrings, bracelets and necklaces.

American Indian Awareness Week culminates March 22 with the 13th annual powwow, a festival of American Indian dancing, singing, drumming, arts, crafts and food.

The powwow attracts more than 1,500 people from 10 states and will run from noon-10 p.m. in the Athletic Complex. The Intertribal and Contest Dancing will begin at 1 p.m. and 6 p.m.

For more information, call the Buder Center at 935-4510 or visit [gwbweb.wustl.edu](http://gwbweb.wustl.edu) and click on the "Centers & Projects" link.

## PICTURING OUR PAST



Hudson E. Bridge was a charter director of the University and gave \$130,000 to the 1870 fund-raising campaign, which was one of the largest gifts received in the William Greenleaf Eliot era. Bridge accumulated the majority of his wealth through the manufacturing of stoves, but he was also a director, and later president, of the railroad system that evolved into the Missouri Pacific. Most of his gifts in 1870 were earmarked for an endowed chancellorship, which still bears his name.



Washington University will be celebrating its 150th anniversary in 2003-04. Special programs and events will be announced as the yearlong observance approaches.

## Epstein to read for International Writers Center

BY LIAM OTTEN

Essayist and short-story writer Joseph Epstein will read from his work at 7 p.m. March 17 at the West Campus Conference Center as a part of The Art of the Essay writers series for the International Writers Center in Arts & Sciences.

In addition, Epstein will lead a seminar on the art of the essay at 4 p.m. March 18 in McMillan Café, Room 115 of Old McMillan Hall. The event will include a question-and-answer session.

Epstein is the author of 14 books, including most recently *Snobbery: The American Version* (2002) and *Narcissus Leaves the Pool* (1999), a collection of essays.

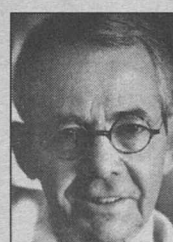
He also recently completed a small book on envy — part of a series based on the seven deadly sins and to be published by Oxford University Press — as well as a new collection of stories, *Fabulous Small Jews*, to be published this spring.

Epstein's essays have appeared in *The American Scholar*, which he edited from 1975-1997, as well as *The New Yorker*, *The Atlantic*, *Harper's*, *Commentary*, *Hudson Review*, the *London Times Literary Supplement* and others. He is the editor of *The Norton Book of Personal Essays*, and in 1993 he edited *The Best American Essays*.

The *Wall Street Journal* has observed that Epstein's "way with

the familiar essay ... has much in common with that of Messrs. Beerbohm, Liebling, and Mencken. Each piece is exquisitely sustained, moving from point to point with the relaxed economy of a pro."

Of *Narcissus Leaves the Pool*, Tom Wolfe noted that "(Epstein) moves so effortlessly from the amusingly personal to the broadly philosophical that it takes a moment before you realize how far out into the intellectual cosmos you've been taken ... It is refreshing to hear so independent a voice."



Epstein

Epstein was born and raised in Chicago's Rogers Park neighborhood and attended the University of Chicago. He has taught English and creative writing at Northwestern University and is a trustee of the Hudson Institute, a think tank focused on social science issues.

Both events are free and open to the public. Copies of Epstein's work will be available for purchase, and a book-signing and reception will follow each program.

For more information, call 935-5576.

## Record

Washington University community news

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 Washington University in St. Louis



## School of Medicine Update

### Osteoporosis research offers new insights

By GILA Z. RECKESS

Defects in a protein called alphaV beta3 integrin appear to contribute to the development of osteoporosis, and these effects can be reversed by enhancing a protein called macrophage-colony-stimulating factor (M-CSF), according to School of Medicine researchers.

The study appeared in the first March issue of the *Journal of Clinical Investigation* and was published online March 4.

"Because of our previous research with these proteins, new drugs already are in clinical trials," said lead investigator Steven L. Teitelbaum, M.D., the Wilma and Roswell Messing Professor of Pathology and Immunology.

"But we still do not understand how these proteins interact to affect bone-cell development. This study brings us significantly closer to determining that mechanism."

Osteoporosis, a condition that results in weakened, brittle bones, afflicts roughly 50 percent of Caucasian and Asian women above age 65. It develops when bone is broken down at a faster rate than it is synthesized.

Therefore, curing the disease and others like it depends on understanding osteoclasts — cells responsible for eroding bone —

and determining why they sometimes become overly active.

Teitelbaum's team previously determined that M-CSF helps unspecialized bone cells develop into mature osteoclasts. Without enough M-CSF to encourage osteoclast growth, animals develop abnormally dense bone.

Similarly, it is known that blocking alphaV beta3 integrin in animal models causes failure of osteoclast function. However, it is unclear precisely how M-CSF or alphaV beta3 integrin influence osteoclast development.

The absence of beta 3 (part of the alphaV beta3 integrin) in precursor cells has a curiously different effect on cells in a petri dish compared with cells in living animals.

When grown in a dish, abnormally few osteoclasts develop, and those that do develop are dysfunctional. In animals, however, precursor cells lacking beta3 produce abnormally high numbers of osteoclasts.

"This paradox suggests that something in the living animal interacts with beta3 during the process of osteoclast differentiation," Teitelbaum said.

His team discovered the interaction may involve M-CSF. When the researchers took precursor cells from mice lacking beta3 and put them in a petri dish, very few

became osteoclasts.

But when levels of M-CSF were increased, the stunted growth effect was reversed. Furthermore, they determined that a particular structure on the surface of the cell (c-Fms tyrosine 697, a component of the protein designed to bind to M-CSF) appears to be largely responsible for this interaction.

"The interaction between M-CSF and alphaV beta3 integrin is intriguing and may help explain some of the less-understood aspects of animal models of osteoporosis," Teitelbaum said.

Because of this interaction, Teitelbaum and his colleagues also explored whether alphaV beta3 integrin and M-CSF are involved in the same signaling pathway that causes precursor cells to differentiate into osteoclasts.

They found increased levels of M-CSF also restored activity of externally regulated kinases (ERKs) and a protein called c-Fos, which are critical for stimulating the cascade of events that lead to bone-cell differentiation.

Because alphaV beta3 integrin also is known to contribute to the activation of ERKs and c-Fos, the team concluded that the alphaV beta3 integrin and M-CSF collaborate in the process of osteoclast differentiation.



George A. Paletta Jr., M.D., associate professor of orthopaedic surgery and director of the department's Sports Medicine Service, checks out Cardinals staff ace Matt Morris' pitching arm.

### Team doctors Cardinals choose School of Medicine physicians

By JIM DRYDEN

The St. Louis Cardinals have completed an agreement with University Orthopaedic Surgeons to provide medical services for the Cardinals' organization.

The agreement will run through 2006.

The sports medicine specialists in the Department of Orthopaedic Surgery will work together with other School of Medicine physicians to provide comprehensive medical care for players and their families on a daily basis and in emergency situations.

University physicians will also manage the care of players in the Cardinals' six-team minor-league system.

George A. Paletta Jr., M.D., associate professor of orthopaedic surgery and director of the department's Sports Medicine Service, will continue to serve as the Cardinals' head team physician.

The St. Louis Rams and Blues also use University physicians as their team doctors.

"In providing care for a professional sports team, our goal is to return injured players to health and their full potential as rapidly as possible," said Richard H. Gelberman, M.D., the Fred C. Reynolds Professor and head of the Department of Orthopaedic Surgery. "Our doctors must provide the highest quality expertise in injury prevention, diagnosis, treatment and rehabilitation."

"We consider the Cardinals'

willingness to renew their arrangement with our physicians in general, and with Dr. Paletta in particular, a tribute to the high-quality care that we have been able to provide over the years."

Because baseball players play almost every day throughout a long season, Paletta said many of their injuries result from repetitive, small traumas as well as stress and strain.

"The most common injuries involve the throwing shoulder and elbow, followed by knee and back injuries," Paletta said. "As team physicians, we are fortunate to work with great athletic trainers led by head trainer Barry Weinberg and assistant trainer and rehabilitation coordinator Mark O'Neal."

"We work closely with them to treat, rehabilitate and, most importantly, try to prevent injury through appropriate flexibility, strengthening, conditioning and training programs. We also are fortunate to have Drs. Rick Wright and Bob Shively from our department on board."

The new arrangement between the Cardinals and the Department of Orthopaedic Surgery continues a relationship that began in 1998.

"We are proud to have Washington University physicians provide medical services for the St. Louis Cardinals," said Walt Jocketty, the team's general manager. "Their expertise in the prevention and rehabilitation of injuries is an important part of the overall success of our team."

### Scientists vie for annual O'Leary prizes

The School of Medicine will hold the 26th Annual James O'Leary Prize Competition for Outstanding Research in Neuroscience from 1-4 p.m. March 26 at the McDonnell Sciences Building, Room 928. Predoctoral students will

present their work from 1-2:15 p.m. and postdoctoral residents and fellows will present their work from 2:30-4 p.m.

The winners will be honored May 28 at the 48th George H. Bishop Lecture in Experimental Neurology.



**Billboard buzz** Patient Bob Klaus (left) expresses his gratitude to Jamie Landman, M.D., assistant professor of surgery, in a grand way. Klaus, who traveled to the Medical Center from Iowa for urological surgery, designed a billboard at the northeast corner of Kingshighway Boulevard and McRee Avenue to show his appreciation for Landman's bedside manner and surgical skills.

### Virus

Causes roughly 23 million episodes of intestinal illness — from Page 1

died in one cage, the researchers decided to investigate. They took tissue from the dead mice and filtered and injected it into healthy mice, some of which had normal immunity and some of which were immune-deficient.

The mice with normal immunity remained healthy; the immune-deficient mice died. This indicated an infectious agent was present that healthy mice could resist but that killed immune-deficient mice. Further analysis identified the previously unknown norovirus.

The investigators then went a step further to determine what part of the mouse immune system is most important for fending off the infection.

The original mice had been engineered to lack two proteins: Rag (for recombination activating gene) and Stat1 (for signal trans-

ducer and activator of transcription 1).

Animals that lack Rag do not develop T cells, B cells and antibodies. They therefore cannot recognize specific proteins, or antigens, that are found on viruses, bacteria and parasites. That is, the animals lack so-called adaptive immunity, which begins fighting viruses within a few days of infection.

Animals without Stat1 lack the other half of the immune system, known as innate immunity. Innate immunity kicks in immediately to fight infection, in part by causing cells to produce anti-viral molecules known as interferons.

Mice that lack Stat1 cannot respond efficiently to interferons and lose most of their innate immune response. Mice deficient in both Rag and Stat1 have no adaptive and very limited innate immunity.

Virgin and his colleagues discovered that mice with Stat1 but lacking Rag survived MNV-1 infection, while those lacking both Rag and Stat1 or Stat1 alone grew sick and died. They concluded that a strong innate immune response is essential for fighting

off the virus.

"We were surprised to find that T cells or B cells weren't needed to prevent lethal infection by this virus," Virgin said. "Mice without adaptive immunity seem to survive just fine."

Herpes and most other viruses kill mice that lack adaptive immunity, he added.

The findings also have implications for commercial facilities that develop immune-deficient mice for use in research.

"Our data strongly suggests that infectious agents, including unknown infectious agents, should be considered when interpreting experiments that use immune-deficient mice," Virgin said. "Otherwise, one might conclude that an immune response was due to experimental conditions when in fact it may be due to a new pathogen."

Virgin also suggested that other scientists investigate unexplained deaths in immune-deficient mice.

"It may reveal other new viruses that might be useful for studying human biology and human infectious disease," he said.



# University Events

The Ahn Trio — (from left) Maria, cello; Angella, violin; and Lucia, piano — will take the Edison Theatre stage twice March 15. The South Korean sisters will perform at 11 a.m. for the ovations! for young people series and then at 8 p.m. for the OVATIONS! Series.



## Ahn Trio at Edison Theatre March 15

BY LIAM OTTEN

The Ahn Trio, surely the most glamorous all-sister chamber ensemble ever to grace both Lincoln Center and MTV, will perform for the Edison Theatre OVATIONS! Series at 8 p.m. March 15.

In addition that day, the Ahns will present a special matinee performance of *Ahn-Plugged*, their program of unconventional and "alternative" chamber works, at 11 a.m. for the ovations! for young people series.

The Ahn sisters have been hailed for their extraordinary powers of communication and for their exquisite blend of rich sound, superb technique and contagious excitement.

The *Washington Post* praised the group for balancing "unanimity and individuality in a spirit that is at the heart of chamber music," while the *Los Angeles Times* noted, "A dominant musical gene has obviously left its imprint on the sisters Ahn."

Originally from South Korea, twins Lucia and Maria and younger sibling Angella all studied piano in early childhood, though Maria switched to the cello at age 7 and Angella soon moved to violin. They made their first public appearance as a trio on Korean television in 1979.

In 1981, however, the Ahn family immigrated to the United States, and the girls — at ages 9 and 11 — enrolled in the pre-college music program at New York's prestigious Juilliard School.

Time magazine brought the Ahns to the attention of American audiences in 1987 as part of a cover story on "Asian American Whiz Kids," and NBC and PBS featured them during their 1988 coverage of the Seoul Olympics.

After winning top prizes at the 1992 Alliance Northeast Competition for Chamber Ensembles and the Coleman Chamber Competition, the trio would grace the pages of *The New York Times*, *GQ*, *Vogue*, *Town & Country* and numerous other publications.

The Ahns' first recording, of Ravel and Villa-

Lobos trios, was released in 1995 to strong reviews; *Audio Magazine* raved that, "...this is one of Ravel's best, and never better played." Their 1999 follow-up, of trios by Suk, Dvorak and Shostakovich, earned similar acclaim — "This enormously stimulating performance will be one to return to again and again" (*BBC Music*) — and won Germany's prestigious ECHO Award, considered that nation's equivalent to the Grammy.

In 1997, an appearance with Bryan Adams on MTV's *Unplugged* inspired the Ahns to develop *Ahn-Plugged*, which focuses on — and frequently commissions — pieces for contemporary composers, notably Eric Ewazen, the sisters' music theory teacher at Juilliard, and former classmates Kenji Bunch and Ronn Yedidia.

The first *Ahn-Plugged* recording, released in 2000, featured Ewazen's *The Diamond World* and Bunch's *Concerto for Piano Trio and Orchestra*, as well as works by Michael Nyman, Leonard Bernstein, Astor Piazzolla and David Bowie.

*Groovebox* (2002), their most recent release, features works by Yedidia, Bunch, Nyman, Piazzolla and Maurice Jarre, as well as Michal Rataj's transcription of The Doors' *Riders on the Storm*.

"To hear them play Piazzolla, you'd think these sisters had grown up on the streets of Buenos Aires," the *Milwaukee Journal Sentinel* wrote. "The rhythms and accents were so full of meaning ... Playing such as this would make stars of the Ahns if they were three ugly men."

The Edison Theatre performances are made possible with support from the Missouri Arts Council, a state agency; and the Regional Arts Commission, St. Louis.

Tickets for the evening concert are \$27, \$22 for seniors, students, WUSTL faculty and staff, and \$13 for WUSTL students. Admission for the matinee is \$7.

Tickets are available at the Edison Theatre Box Office and through all MetroTix outlets.

For more information about either performance, call 935-6543.

## Historian Aron to give Fulbright lecture for Assembly Series

BY MARY KASTENS

Stephen Aron, an American historian whose scholarship focuses on the American West and frontier history, will deliver the Thomas D. Fulbright Lecture in American History as part of the Assembly Series at 11 a.m. March 19 in Graham Chapel.

Aron's lecture is titled "The Tragedy of William Clark: The Missouri Years of Lewis and Clark."

Aron is associate professor of history at the University of California, Los Angeles, and the director of the Autry Institute for the Study of the American West. The institute supports the scholarly, interpretive and educational activities of the Autry Museum of Western Heritage. The museum presents a rich cultural tapestry of

the American West.

Aron's research has been widely published in books and scholarly journals.

His books include *How the West Was Lost: The Transformation of Kentucky from Daniel Boone to Henry Clay* (1996); *Trading Cultures: Essays on the Worlds of Western Merchants* (2001), co-edited with Jeremy Adelman; and *Worlds Together, Worlds Apart: A History of the Modern World From the Mongol Empire to the Present* (2002), co-authored with Jeremy Adelman, et. al.

In *How the West Was Lost*, Aron examines how the Native American and European cultures collided and coincided, and why this mixed world did not last. He seeks to explain how the possibilities of a common ground were lost and the impact that had on

Native Americans, settlers and slaves.

Of *Worlds Together, Worlds Apart*, the publisher said Aron and his colleagues "take a global, non-Eurocentric approach, highlighting three key themes in world history: cultural exchange and interaction, conflict and resistance, and alterations in the balance of power."

His current research projects include a book on Daniel Boone's legacy and another on the Missouri frontier.

Aron earned a doctorate in history from the University of California, Berkeley, in 1990.

All Assembly Series lectures are free and open to the public. For more information on Aron's lecture, call 935-4620 or visit the series Web site, [wupa.wustl.edu/assembly](http://wupa.wustl.edu/assembly).

## Genes, Jeans and Genomes • Spanish Baroque Music

"University Events" lists a portion of the activities taking place at Washington University March 14-27. Visit the Web for expanded calendars for the Hilltop Campus ([wustl.edu/calendar](http://wustl.edu/calendar)) and the School of Medicine ([medschool.wustl.edu/calendars.html](http://medschool.wustl.edu/calendars.html)).

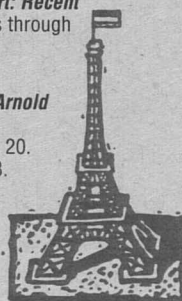
### Exhibitions

**Contemporary German Art: Recent Acquisitions.** Continues through April 20. Gallery of Art. 935-4523.

**Contemporary Projects: Arnold Odermatt Photographs.** Continues through April 20. Gallery of Art. 935-4523.

**Made in France: Art From 1945 to the Present.** Continues through April 20. Gallery of Art. 935-4523.

**Ten Shades of Green.** Continues through April 11. Givens Hall. 935-6200.



### Film

#### Sunday, March 16

**1 p.m. French Film Series.** *Venus Beauty Institute.* Tonie Marshall. Washington, dir. Sponsored by the Program in Film & Media Studies. Brown Hall Rm. 100. 935-4056.

#### Sunday, March 23

**1 p.m. French Film Series.** *Time Out.* Laurent Cantet, dir. Sponsored by the Program in Film & Media Studies. Brown Hall Rm. 100. 935-4056.

### Lectures

#### Friday, March 14

**9:15 a.m. Pediatric Grand Rounds.** "Pervasive Developmental Disorder — Not Otherwise Specified: Prevalence, Evaluation, Genetics and Treatment." John Constantino, asst. prof. of psychiatry and pediatrics. Clopton Aud., 4950 Children's Place. 454-6006.

**Noon. Cell Biology & Physiology Seminar.** "From Calnexin Identification to ER and Organellar Proteomics." John I.M. Bergeron, prof. and chair of anatomy & cell biology, McGill U. McDonnell Medical Sciences Bldg., Rm. 426. 747-4233.

**2 p.m. Public Interest Law Speaker Series.** "Access to Justice: Ethical Responsibilities and Political Realities." Deborah L. Rhode, Ernest W. McFarland Professor of Law, dir., Keck Center on Legal Ethics & the Legal Profession, Stanford U. Anheuser-Busch Hall, Bryan Cave Moot Courtroom. 935-6414.

**4 p.m. Anatomy & Neurobiology Seminar.** "Neural Systems in Monkey and Human Fronto-temporal Cortex: Comparisons of Architectonics, Connections and Functional Imaging." Joel Price, prof. of anatomy & neurobiology, McDonnell Medical Sciences Bldg., Rm. 928. 362-7043.

**4 p.m. East Asian Studies Lecture.** Annual Stanley Spector Memorial Lecture on East Asian History and Civilization. "The Genealogy of Globalization in China." Prasenjit Duara, prof. of history and East Asian languages and civilizations, U. of Chicago. McDonnell Hall, Rm. 162. 935-4448.

**7 p.m. Gallery of Art Friday Forum Series.** "Arnold Odermatt and the Trauma of Modernization." Sabine Eckmann, curator, Gallery of Art. (6:30 p.m. reception. Cost: \$10.) Gallery of Art. 935-5423.

#### Saturday, March 15

**7:30 a.m.-12:30 p.m. Continuing Medical Education Course.** Annual Update in the Management of Hypertension and Cardiovascular Diseases. Cost: \$55. Eric P. Newman Education Center. 362-6891.

#### Monday, March 17

**Noon. Molecular Biology & Pharmacology Research Seminar.** "Synthetic Cation and Anion Channels That Function in Phospholipid Bilayer Membranes." George Gokel, prof. and dir. of chemical biology, South Bldg., Rm. 3907, Philip Needleman Library. 362-0183.

**4 p.m. Biology Seminar.** "Mechanisms of Circadian Output in *Drosophila*." Paul Taghert, prof. of anatomy & neurobiology. Rebstock Hall, Rm. 322. 935-8635.

**4 p.m. Immunology Research Seminar Series.** Student Sponsored Seminar. "Pathways to Tolerance in Autoimmunity." Jeffrey Bluestone, dir, diabetes center, U. of Calif., San Francisco. Eric P. Newman Education Center. 362-2763.

**4 p.m. Neurology & Neurological Surgery Research Seminar Series.** "White Matter Ischemia — Axons and Oligodendrocytes Talk It Over." Mark Goldberg, assoc. prof. of neurology and neurobiology, Maternity Bldg., Schwarz Aud. 362-7316.

**4:30 p.m. Mathematics Talk.** John Garnett, prof. of mathematics, U. of Calif., Los Angeles. (4 p.m. tea, Cupples I Hall, Rm. 200.) Cupples I Hall, Rm. 199, Kirk Seminar Room. 935-6760.

**7 p.m. Architecture Monday Night Lecture Series.** Annual Coral Courts Lecture. "Materialize." Julie Snow, architect, Julie Snow Architects, Inc. Minneapolis. 935-6200.

#### Tuesday, March 18

**Noon. Molecular Microbiology and Microbial Pathogenesis Seminar Series.** "New Paradigms in Phagocytosis and Host-pathogen Interaction." Michael Desjardins, assoc. prof. of pathology and cell biology, U. of Montreal. Cori Aud., 4565 McKinley Ave. 747-2630.

**Noon. Neuroscience Seminar.** "Genomic Analysis of Retinal Development and Disease." Seth Blackshaw, postdoctoral fellow in genetics, Harvard U. McDonnell Medical Sciences Bldg., Rm. 928. 362-7043.

**4 p.m. Art of the Essay Seminar.** Joseph Epstein, essayist and author. McMillan Hall Café. 935-5576.

#### Wednesday, March 19

**8 a.m. Obstetrics & Gynecology Grand Rounds.** "Anesthesiology Pain Management Techniques for Cancer Pain Management." Robert A. Swann, assoc. prof. of anesthesiology and chief of pain management. Clopton Aud., 4950 Children's Place. 362-1016.

**11 a.m. Assembly Series.** Thomas D. Fulbright Lecture in American History. Stephen Aron, dir. Autry Inst. for the Study of the American West, assoc. prof. of history, Univ. of Calif., Los Angeles. Graham Chapel. 935-5285.

**4 p.m. Biochemistry & Molecular Biophysics Seminar.** "Hydrogen Bond Formation and Pathway Heterogeneity in Protein Folding." Tobin Sosnick, assoc. prof. of biochemistry & molecular biology, U. of Chicago. Cori Aud., 4565 McKinley Ave. 362-0261.

**4 p.m. Physics Lecture.** Eugene Feenberg Memorial Lecture. "A New Perspective on van der Waals Interactions." Walter Kohn, Nobel laureate and theoretical physicist. Crow Hall, Rm. 201. 935-6250.

**4 p.m. University Libraries Favorite Books Seminar Series.** "Old World Rivalries and New World Scenes: De Bry's *America*." Angela Miller, assoc. prof. of art history & archaeology, Olin Library, Lvl. 1, Special Collections. 935-5418.

#### Thursday, March 20

**4 p.m. Anesthesiology Lecture.** Annual C. R. Stephen Lecture. "Ca Signals Controlling Neurotransmitter Release and Short Term Synaptic Plasticity." Erwin Neher, prof. of biophysics, Max-Planck-Institut für Biophysikalische Chemie, Goettingen, Germany. Eric P. Newman Education Center. 454-5991.

**4 p.m. Ophthalmology & Visual Sciences Seminar.** "The Ah Receptor: Prototype for the PAS Superfamily of Nuclear Sensors." Chris Bradfield, prof. of oncology, McArdle Lab. for Cancer Research, Madison, Wis. McDonnell Medical Sciences Bldg., Rm. 928. 362-1006.

**8 p.m. Writing Program Reading Series Colloquium.** John Kinsella, poet, Fannie Hurst Professor of Creative Literature. Duncker Hall, Hurst Lounge. 935-7130.

#### Friday, March 21

**9:15 a.m. Pediatric Grand Rounds.** "Cystic Fibrosis Related Diabetes." Antoinette Moran, head of pediatric endocrinology, U. of Minn. Clopton Aud., 4950 Children's Place. 454-6006.

**Noon. Cell Biology & Physiology Seminar.** "How Does a Cell Know When to Die?" Xiaodong Wang, professor of biological chemistry and integrated biology, U. of Texas. Southwestern Medical Center. McDonnell Medical Sciences Bldg., Rm. 426. 362-4690.

**4 p.m. Anatomy & Neurobiology Seminar.** Mriganka Sur, head and Sherman



# University Opera does Broadway

## *Most Happy Fella* at Saint Louis Art Museum March 21-22

BY LIAM OTTEN

The Washington University Opera will present Frank Loesser's legendarily ambitious Broadway musical *The Most Happy Fella* at 7 p.m. March 21-22 in the Saint Louis Art Museum auditorium.

Set in 1927, the story opens in a San Francisco restaurant where the beautiful young waitress Rosabella (played by Karen Hetzler, a master's candidate in vocal performance) has just received a written proposal of marriage from Tony Esposito (senior Scott Levin), a shy yet good-hearted Italian vintner from the Napa Valley.

They begin to correspond, but Rosabella, having no recollection of waiting on the stocky, middle-aged Tony, requests a photo. Fearing rejection, Tony instead sends a picture of his handsome ranch foreman, Joe (senior David Koch).

The gambit works, and after several months, Rosabella accepts Tony's proposal, much to his delight. However, when she finally arrives in town, the first person she meets is Joe, who quickly unravels the deception.

Indignant, Rosabella prepares to return to San Francisco but stops when she learns that Tony, who had planned to intercept her at the train station, has suffered an accident en route. Seeing him on his stretcher, the reluctant Rosabella cannot bring herself to leave the injured man and they marry that night, though afterward she takes comfort in the arms of Joe.

Still, as the weeks pass and Tony convalesces, Rosabella is gradu-

### *The Most Happy Fella*

**Who:** Washington University Opera

**What:** Broadway musical by Frank Loesser

**Where:** Saint Louis Art Museum auditorium; One Fine Arts Drive in Forest Park

**When:** 7 p.m. March 21-22

**Tickets:** \$15; \$10 for seniors, students and WUSTL faculty and staff; \$5 for WUSTL students. Available through the Edison Theatre Box Office (935-6543) and at the door.

For more information, call 935-4841.

ally swayed by her new husband's constant attention and generosity, coming at last to truly love him. Yet one final obstacle remains, as Rosabella discovers that she is pregnant with Joe's child.

Jolly Stewart, director of the Washington University Opera, said *The Most Happy Fella* is one of the most vocally challenging Broadway musicals and points out that the role of Tony usually requires an operatically trained baritone. In fact, the role was originated by Robert Weede and also has been performed by Giorgio Tozzi and Louis Quilico; all three were longtime members of New York's Metropolitan Opera.

Compounding the difficulty for most Broadway-style companies is the wide-ranging score, which includes close to 30 numbers and is liberally sprinkled with arias, recitatives, duets, canons, choral numbers, dances, instrumental interludes and folk

hymns. Indeed, roughly three-quarters of the play is set to music; it was the first Broadway show recorded in its totality, not just the hits.

Book, music and lyrics all were written by Loesser, who based the story on Sidney Howard's 1924 hit *They Knew What They Wanted* and who had enjoyed previous Broadway success with *Guys and Dolls* (1950).

The original production opened in May 1956 and ran for 678 performances, receiving the 1957 New York Drama Critics Circle Award and Tony Award nomination for best musical, though it ultimately lost to *My Fair Lady*. The show also yielded several hit tunes, including "Standing on the Corner," "Big D" and "Joey, Joey, Joey."

Brooks Atkinson, writing in *The New York Times*, called *The Most Happy Fella* "a profoundly moving dramatic experience" and "a rare achievement for the theater."

"Broadway is used to a heart," Atkinson wrote. "It is not accustomed to evocations of the soul."

Robert Coleman of the *Daily Mirror* concurred: "It is a masterpiece of our era. ... People sing their thoughts, their joys and heartbreaks, instead of talking about them. Sing them superbly, through one of the most gorgeous scores we have ever heard on a stage."

The cast of 25 also features Michelle Goodman and Klaus Georg, both master's candidates in vocal performance, in the comic roles of Cleo and Herman. John Stewart, the University's director of vocal



Senior Scott Levin as Tony Esposito and master's candidate Karen Hetzler as Rosabella in the Washington University Opera's production of Frank Loesser's Broadway musical *The Most Happy Fella*, at the Saint Louis Art Museum March 21-22.

activities, conducts.

Choreography is by Christine O'Neal, senior artist-in-residence in dance in the Performing Arts Department in Arts & Sciences.

Tickets are \$15; \$10 for seniors, students and WUSTL faculty and staff; and \$5 for WUSTL students. Tickets are available through the Edison Theatre Box Office, at 935-6543, and at the door.

The Saint Louis Art Museum

is located at One Fine Arts Drive in Forest Park.

The performance is co-presented by the Saint Louis Art Museum and the Department of Music in Arts & Sciences.

Shuttle buses will run from Mallinckrodt Student Center to the art museum at 6:30 p.m. and 6:45 p.m. each day.

For more information, call 935-4841.

Fairchild Professor of Neuroscience, dept. of brain and cognitive sciences, Mass. Inst. of Technology, McDonnell Medical Sciences Bldg., Rm. 928. 362-7043.

**4 p.m. College of Arts & Sciences Lecture.** "A Quick Lesson on How to Teach the Bible." David Hadas, prof. of English. January Hall, Rm. 110. 935-8277.

### Monday, March 24

**Noon. Biomedical Engineering Seminar.** "A Novel View of Stimulus Encoding in Auditory Cortex." Dennis Barbour, dept. of biomedical engineering, Johns Hopkins U. McDonnell Medical Sciences Bldg., Rm. 928. 362-7043.

**Noon. Neurology & Neurological Surgery Research Seminar.** "Excitotoxicity in Models of Parkinson's Disease Progression." Gabriel Alejandro de Erausquin, asst. prof. of psychiatry and neurology, Maternity Bldg., Schwarz Aud. 362-7316.

**Noon. Work, Families, & Public Policy Brown Bag Seminar Series.** "Do Cigarette Taxes Make Smokers Happier?" Jonathan Gruber, prof. of economics, Mass. Inst. of Technology. Eliot Hall, Rm. 300. 935-4918.

**4 p.m. Biology Seminar.** "Genes, Jeans, and Genomes: Exploring the Mysteries of Polyploidy in Cotton." Jonathan Wendel, prof. of plant systematics, dept. of botany, Iowa State U. Rebstock Hall, Rm. 322. 935-7569.

**4 p.m. Immunology Research Seminar Series.** "Regulating TCR Signal Transduction." Arthur Weiss, distinguished visiting prof. of immunology and prof. of medicine, U. of Calif., San Francisco. Eric P. Newman Education Center. 362-2763.

**7 p.m. Architecture Monday Night Lecture Series.** "Contemporary Architecture and Change: Asia and Africa." Suha Ozkan, secretary general, Aga Khan Foundation, Geneva, Switzerland. Steinberg Hall Aud. 935-6200.

### Tuesday, March 25

**Noon. Molecular Microbiology & Microbial Pathogenesis Seminar Series.** "Hyper-thermophiles in

Volcanoes." Jan P. Amend, asst. prof. of earth & planetary sciences. Cori Aud., 4565 McKinley Ave. 362-3692.

**4 p.m. Anesthesiology Research Unit Seminar.** Yang Dan, assoc. prof. of neurobiology, U. of Calif., Berkeley. Clinical Sciences Research Bldg., Rm. 5550. 362-8560.

**4 p.m. Biochemistry & Molecular Biophysics Seminar.** "Mechanisms of Damaged-DNA Recognition by DNA Repair Polymerase." Wlodzimierz M. Bujalowski, prof. of human biological chemistry and genetics, U. of Texas. Medical Branch, Galveston. Cori Aud., 4565 McKinley Ave. 362-0261.

**4 p.m. Religious Studies Lecture.** Annual Witherspoon Lecture in Religion and Science. "Genes, Genesis, and God." Holmes Rolston III, University Distinguished Professor of Philosophy, Colo. State U. Laboratory Science Bldg., Rm. 300. 935-7752.

### Wednesday, March 26

**8 a.m. Obstetrics & Gynecology Grand Rounds.** "Fetal Risks of Diabetic Pregnancy." Kari Teramo, dept. of obstetrics & gynecology, U. Central Hospital, Helsinki. Clopton Aud., 4950 Children's Place. 362-1016.

**11 a.m. Assembly Series.** Women's Week Lecture. "Feminism in the 21st Century: Are We There Yet?" Patricia Ireland, former president of the National Organization for Women. Co-sponsored by The Woman's Club of Washington University. Graham Chapel. 935-5285.

**11 a.m. Public Interest Law Speaker Series.** "Colonies, Culture, and Capitalism: The Social Responsibilities of Lawyers in a Neo-liberal Age." Angela P. Harris, distinguished visiting scholar; prof. of law, U. of Calif., Berkeley. Anheuser-Busch Hall, Bryan Cave Moot Courtroom. 935-6414.

### Thursday, March 27

**Noon. Genetics Seminar Series.** "Germline Immortality in *C. elegans*." Shawn Ahmed, asst. prof. of biology, U. of N.C. McDonnell Medical Sciences Bldg., Rm. 823. 362-2139.

**1:10 p.m. George Warren Brown School of Social Work Spring Lecture Series.** "Welfare Reform 2002." Miriam Abramovitz, prof. of social work and social welfare policy, Hunter College. Brown Hall Lounge. 935-4909.

**3 p.m. Mechanical Engineering Sesquicentennial Colloquium.** "Mechanical Engineering at Washington University 1853-2003." Kenneth L.

Jerina, Earl E. and Myrtle E. Walker Professor of Engineering. Cupples II Hall, Rm. 100. 935-6047.

**4 p.m. Assembly Series. Congress of the South 40 Lecture.** Luis Rodriguez, poet and author. Graham Chapel. 935-5285.

**4 p.m. Neurology Lecture. Annual William M. Landau Lecture.** "The History of Discrimination in American Medical Education." Kenneth M. Ludmerer, prof. of medicine and history. McDonnell Medical Sciences Bldg., Erlanger Aud. 454-6042.

## Music

### Saturday, March 15

**11 a.m. ovations! for young people.** Ahn-plugged. The Ahn Trio. Cost: \$7. Edison Theatre. 935-6543.

**8 p.m. OVATIONS!** The Ahn Trio. Cost: \$27, \$22 for seniors, students, WUSTL faculty and staff, \$13 for WUSTL students. Edison Theatre. 935-6543.

### Sunday, March 16

**7:30 p.m. Concert.** *Canciones y Seguidillas — Music of the Spanish Baroque.* The Kingsbury Ensemble. Ridgley Hall, Holmes Lounge. 935-4841.

### Thursday, March 20

**8 p.m. Jazz at Holmes.** Lisa Campbell and the Jazz Singers. Ridgley Hall, Holmes Lounge. 935-4841.

### Thursday, March 27

**8 p.m. Jazz at Holmes.** Jeff Lash, vibraphonist. Ridgley Hall, Holmes Lounge. 935-4841.

## On Stage

### Friday, March 21

**7 p.m. Washington University Opera.** *The Most Happy Fella*, by Frank Loesser. Jolly Stewart, dir. (Also 7 p.m. March 22) Cost: \$15, \$10 for seniors, students, and WUSTL faculty & staff, and \$5 for WUSTL students. Saint Louis Art Museum Aud. 935-4841.

## Worship

### Friday, March 14

**11 a.m. Catholic Mass.** (Soup lunch follows.) Catholic Student Center, 6352 Forsyth Blvd. 935-9191.



### Sunday, March 16

**11 a.m. & 9 p.m. Catholic Mass.** Catholic Student Center, 6352 Forsyth Blvd. 935-9191.

### Tuesday, March 18

**5:15 p.m. Catholic Mass.** (Soup dinner follows.) Catholic Student Center, 6352 Forsyth Blvd. 935-9191.

### Thursday, March 20

**9:30 p.m. Catholic Praise & Adoration Service.** Catholic Student Center, 6352 Forsyth Blvd. 935-9191.

### Friday, March 21

**11 a.m. Catholic Mass.** (Soup lunch follows.) Catholic Student Center, 6352 Forsyth Blvd. 935-9191.

### Sunday, March 23

**11 a.m. & 9 p.m. Catholic Mass.** Catholic Student Center, 6352 Forsyth Blvd. 935-9191.

### Tuesday, March 25

**5:15 p.m. Catholic Mass.** (Soup dinner follows.) Catholic Student Center, 6352 Forsyth Blvd. 935-9191.

### Thursday, March 27

**9:30 p.m. Catholic Praise & Adoration Service.** Catholic Student Center, 6352 Forsyth Blvd. 935-9191.

## Sports

### Tuesday, March 18

**2 p.m. Baseball vs. Westminster College.** Kelly Field. 935-5476.

### Thursday, March 20

**12:30 p.m. Baseball vs. Illinois College.** Kelly Field. 935-5476.

### Friday, March 21

**2:30 p.m. Baseball vs. Eureka College.** Kelly Field. 935-5476.

**4 p.m. Track & Field vs. Greenville College.** Francis Field. 935-5476.

### Saturday, March 22

**11 a.m. Softball vs. Loras College.** Softball Field. 935-5476.

**Noon. Baseball vs. Simpson College.** Kelly Field. 935-5476.

**2:30 p.m. Baseball vs. Illinois Wesleyan U.** Kelly Field. 935-5476.

**3 p.m. Softball vs. Cornell College.** Softball Field. 935-5476.

### Sunday, March 23

**11 a.m. Softball vs. East Texas Baptist U.** Softball Field. 935-5476.

**Noon. Baseball vs. Simpson College.** Kelly Field. 935-5476.

**1 p.m. Softball vs. Upper Iowa U.** Softball Field. 935-5476.

**2:30 p.m. Baseball vs. Illinois Wesleyan U.** Kelly Field. 935-5476.

## And more...

### Saturday, March 15

**6 p.m. Relay for Life.** To Benefit the American Cancer Society. Francis Field. (Continues through 6 a.m. March 16.) Co-sponsored by WUSTL Physicians. For more information, e-mail relay@restech.wustl.edu.

### Sunday, March 16

**4 p.m. American Culture Studies Publication Event & Reading.** John N. Morris, poet, and others. Women's Bldg. Formal Lounge. 935-5216.

### Monday, March 17

**7 p.m. The Art of the Essay Writers Series.** Joseph Epstein, essayist and author. West Campus Conference Center, 7425 Forsyth Blvd. 935-5576.

### Friday, March 21

**7 p.m. Gallery of Art Guided Tours.** Tours of Contemporary German Art: Recent Acquisitions, Made in France: Art From 1945 to the Present; and Contemporary Projects: Arnold Odermatt Photographs led by student docents. Gallery of Art. 935-4523.



# Stardust

— from Page 1

gleaned from different parts of space.

Until recently, ion probes had to analyze dozens of grains at one time and so were able to deduce only the average properties of a sample.

In 2001, with help from NASA and the National Science Foundation, the University bought a newly available and much more sensitive ion probe.

Made by Cameca in Paris, the NanoSIMS probe can resolve particles as small as 100 nanometers in diameter. A million such particles side-by-side would make a centimeter. The grains in IDPs range from 100 nanometers to 500 nanometers.

"So like the Hubble telescope, the NanoSIMS allows us to see things on a much finer scale than ever before," Messenger said.

Lindsay P. Keller, Ph.D., of NASA's Johnson Space Center in Houston, first examined thin slices of IDPs under the transmission electron microscope. He identified the chemical elements in single grains and determined whether the grains were crystals or coated with organic material.

Using the NanoSIMS probe, the University investigators then measured the relative amounts of two isotopes of oxygen in more than a thousand grains from nine IDPs. The data told them which grains had come from stars.

The researchers discovered the first grain of stardust in the

first half-hour of their first NanoSIMS session.

"Finding something that people have been seeking for such a long time was incredibly exciting," Messenger said.

Stardust was surprisingly common in the IDPs.

"We found that 1 percent of the mass of these interplanetary dust particles was stardust," Messenger said. "So stardust is about 50 times as abundant in these particles as in meteorites, which suggests that it comes from far more primitive bodies."

The isotopic measurements identified six stardust grains from outside our solar system. Three appeared to have come from red giants or asymptotic giant branch stars, two late stages in stellar evolution.

A fourth was from a star containing little metal. The fifth and sixth possibly came from a metal-rich star or a supernova.

Although this work is just beginning, some novel findings have emerged. For example, one of the grains was crystalline, which contradicts the idea that silicate stardust grains are always amorphous.

"A single grain of stardust can bring down a long-established theory," Messenger said.

The researchers will probe the history of stardust with further studies of IDP chemistry and microstructure.

"The interstellar medium plays an incredibly important role in star formation, but you can learn only so much by using a telescope," Messenger said. "You can find out so much more by studying actual samples."

## Sports

### Women continue run toward fifth national title

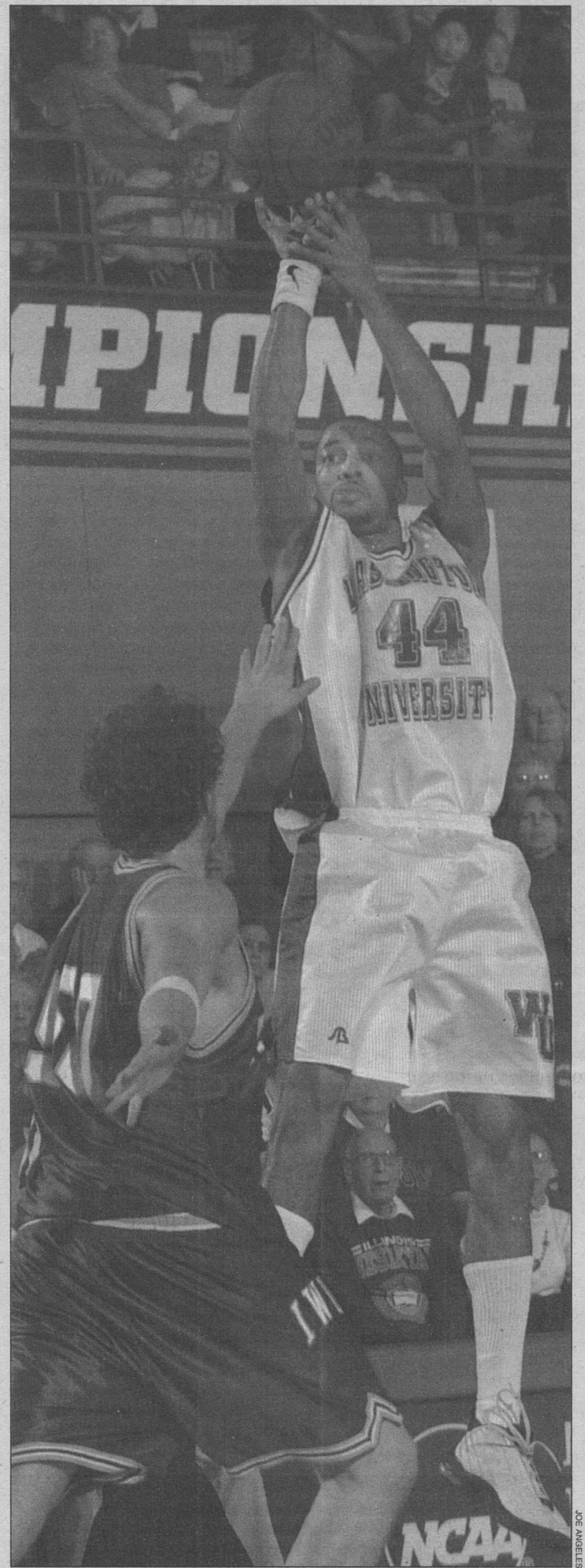
The No. 3 women's basketball team used a 19-0 run early in the second half to advance to the NCAA Division III Sweet Sixteen with a 80-56 win over Illinois Wesleyan University March 8 at the Field House. The Bears started fast and never slowed, as they took a 10-point lead just six minutes into the game. They pushed the lead to 18 in the first half, then made their decisive run just three minutes into the second half. Lesley Hawley led the Bears with 18 points, on nine-of-11 shooting. WUSTL (25-1) will face St. Norbert College at 5:30 p.m. today in Abilene, Texas. On March 1, the Bears closed out the regular season with an 83-54 win over the University of Chicago at the Field House. They finished University Athletic Association play with a 13-1 mark, good for their sixth straight UAA title.

### Men's team loses; finishes year 24-2

The men's basketball team saw its record-setting season come to an end as the No. 2 Bears were beaten 85-73 by 13th-ranked Illinois Wesleyan in the second round of the NCAA Division III Tournament March 8 at the Field House. The Bears finished their season with a 24-2 record. WUSTL led 38-37 at halftime, but an 8-0 Titans run midway through the half gave the visitors a 56-53 lead they would not relinquish. The Bears would get as close as two points at 66-64 with 3:28 left, but the visitors finished the contest hitting 13 of 13 from the free throw line. Chris Jeffries finished with 20 points, 10 rebounds and six assists to lead four starters in double figures. His fifth point of the night gave him 1,500 for his career, good for second all-time at WUSTL. On March 1, WUSTL wrapped up its second straight outright UAA title with an 85-50 win over the University of Chicago. A 19-0 run that bridged the first and second halves pushed the Bears to the victory. Leading 31-19 at the break, the Bears scored nine straight to start the second half to push the margin to 40-19.

The softball team started the season 5-0 for the second straight season as it won all five games at the Rebel Spring Games in Orlando, Fla. The Bears opened the season March 2 with a 1-0 win over the College of Misericordia. Sophomore Victoria Ramsey threw a three-hit shutout and Liz Swary drove in the winning run in the bottom of the fifth inning. Other wins came against Thiel College (7-0), Muhlenberg College (5-1), Widener College (9-0) and Heidelberg College (4-1). The Bears then went 4-2 through Monday's games at the UAA Tournament in Altamonte Springs, Fla. Two wins came against Brandeis University, while other victories came at the expense of Case Western Reserve University and Rochester. Both losses came against Emory University.

The No. 10 women's tennis team improved to 4-1 on the year with a 3-1 swing through Southern California. The Bears defeated California Lutheran University, 6-3, No.



Bears senior Chris Jeffries goes up for a shot against Illinois Wesleyan in the NCAA Division III Tournament. Jeffries finished with 20 points, 10 rebounds and six assists in the 85-73 loss. His fifth point of the night gave him 1,500 for his career, good for second all-time at WUSTL.

10 Claremont-Mudd-Scripps Colleges 5-4 and No. 19 University of the Redlands 8-1. WUSTL's only loss was a tight 5-4 decision to No. 8 Pomona-Pitzer Colleges. Senior Jenny Stein and junior Laura Greenberg led the way as the duo went 3-1 at No. 3 doubles and each went 4-0 at singles.

The No. 7 men's tennis team posted a 1-2 at the NCAA Division III Indoor Championships in St. Peter, Minn. In the opening match against second-ranked Emory, the Bears dropped a 5-2 decision as WUSTL captured the doubles point to take a 1-0 lead, but dropped five of six singles matches. In the consolation semifinals, the Bears ousted No. 9 Washington College 6-1 as Washington U. won all three doubles matches and five out of six singles matches. In the consolation final, eighth-ranked Mary Washington College edged out

Washington U. 4-3 for fifth place.

Led by junior Kammie Holt and senior Valerie Lasko, the women's track and field team won its fourth straight title at the UAA Indoor Track and Field Championships, hosted by Brandeis. The men's team finished third. Holt, who won her third straight long jump title with a leap of 5.48 meters, also finished second in the triple jump (11.33 meters and fifth in the 55 meter dash (7.73 seconds), and was named the Women's Outstanding Performer of the meet. Lasko set a school record in the 400 meters with a time of 58.54 seconds, won the 200 meters and ran the third leg on the 4x400 meter relay, which broke the school record for the third time this season — this time by more than two seconds — and qualified provisionally for the national championship meet.

## Campus Watch

The following incidents were reported to University Police Feb. 26-March 12. Readers with information that could assist in investigating these incidents are urged to call 935-5555. This information is provided as a public service to promote safety awareness and is available on the University Police Web site at [police.wustl.edu](http://police.wustl.edu).

### Feb. 26

3:58 p.m. — A Follett College Stores employee reported having his suitcase taken from his car while parked on the south side of Mallinckrodt Student Center. Forced entry was observed below the driver's-side door lock. The suitcase was later found on Lindell Boulevard and returned to the owner.

### Feb. 27

11:12 p.m. — A student reported that she discovered her wallet and room key missing from her unlocked room in Eliot Residence Hall.

### March 2

10:56 p.m. — An employee

reported hearing loud banging noises from the snack area in Brown Hall and contacted the University Police. Upon arrival, it was discovered that a snack machine had been tilted and fell over, causing damage to the east wall.

### March 5

12:43 p.m. — A student stated that an unknown person stole the front wheel off his bike, which was secured to the bike rack at Park House.

*Additionally, University Police responded to seven reports of larceny, four auto accidents, three reports of property damage, two reports of suspicious persons and one report each of medical emergency and fire.*

## Employment

Go online to [hr.wustl.edu](http://hr.wustl.edu) (Hilltop Campus) or [medicine.wustl.edu/wumshr](http://medicine.wustl.edu/wumshr) (Medical Campus) to obtain complete job descriptions.

### Hilltop Campus

For the most current listing of Hilltop Campus position openings and the Hilltop Campus application process, go online to [hr.wustl.edu](http://hr.wustl.edu). For more information, call 935-5906 to reach the Human Resources Employment Office at West Campus.

Senior Medical Sciences Writer 010108  
General Lab Asst. Part Time 020237  
Physical Therapist 030064  
Registered Nurse 030079  
Health Services Physician 030099  
Business Development Coord. 030110  
Zone Manager 030137  
Assoc. Dir. of

Development 030163  
Administrative Asst. 030164  
Study Coord. 030172  
Shuttle Driver 030179  
Sr. Prospect Researcher 030182  
Career Development Specialist 030187  
Assoc. Dir. of Dev., Sch. of Engr. 030188  
Staff Psychologist 030190  
Administrative Asst. 030194  
DNA Sequencing Lab Technician 030197  
Assoc. General Counsel 030197  
Lab Technician IV 030199  
Department Secretary 030201  
Assoc. Dir. of Capital Projects 030203  
Health Educator 030204

Staff Psychologist/Counselor/Clin. Soc. Worker 030206  
Project Leader/IS 030207  
Accountant 030209  
Assoc. Dir., Business Development 030210  
Accounts Payable Coord. 030212  
Residential College Dir. 030214  
Treasury Analyst 030215  
Deputized Police Officer 030217  
Research Technician 030219  
Assoc. Dir. J.B. Ervin Scholars Program 030220  
Dir. of Health Service & Counseling Service 030222  
Supervisor of Gift Acknowledgements 030224  
Asst./Assoc. Dean for Graduate Programs 030227

### Medical Campus

This is a partial list of positions in the School of Medicine. Employees: Contact the medical school's Office of Human Resources at 362-7196. External candidates: Submit résumés to the Office of Human Resources, 4480 Clayton Ave., Campus Box 8002, St. Louis, MO 63110, or call 362-7196.

Clinical Office Supervisor 031142  
RN Staff Nurse 031216  
Medical Secretary II 031221  
Animal Care Technician I 031224  
Research Lab Supervisor 031227  
Sr. Research Technician 031229



# Notables

## Of note

**Robert H. Arch**, Ph.D., assistant professor of medicine, has received a four-year, \$200,000 grant from the Cancer Research Institute for research titled "TRAF-mediated Signaling Pathways Regulating Tumor Cell Apoptosis." ...

**Shirley K. Baker**, vice chancellor

for information technology and dean of University Libraries, has been appointed to a three-year term on Secretary of State Matt Blunt's Council on Library Development. Baker will represent Missouri academic libraries on the council, which advises the secretary of state and the state librarian. ...

**Christopher I. Byrnes**, Ph.D., dean of the School of Engineering & Applied Science and the Edward H. and Florence G. Skinner

Professor of Systems Science and Mathematics, is co-editor of a new book, *Directions in Mathematical Systems Theory and Optimization*. The publisher is Springer Verlag. ...

**Frank C.P. Yin**, Ph.D., chair of the Department of Biomedical Engineering and the Stephen F. and Camilla T. Brauer Professor of Biomedical Engineering, has been named to the National Institute of Biological Imaging and Bioengineering (NIBIB) national advisory council. The NIBIB is a National Institutes of Health research institute. ...

**Zeuler Lima**, assistant professor in the School of Architecture, spoke on "São Paulo as a City of

Dissent: An Oblique View Through Recent Housing Movements" for the Harvard Graduate School of Design (GSD) international conference "Import/Export: Latin American Urbanities" March 7. Lima co-authored the presentation with Vera M. Pallamin of the Universidade de São Paulo. The project was supported by the GSD, The Federal Cultural Foundation of Germany, The Caracas Urban Think Tank and AULA: Architecture & Urbanism in Las Américas. ...

**Elizabeth C. Childs**, Ph.D., associate professor of art history and archaeology in Arts & Sciences, chaired a session at the College Art Conference in New

York City recently. Her session, sponsored by the Association for Historians of Nineteenth-Century Art, was titled "The Witness: Writing the Biography of the Nineteenth-Century Artist." She also delivered a paper on March 7 at the international Gauguin symposium held at the University of French Polynesia, in Papeete, Tahiti, on the subject of Gauguin and colonial photography. ...

**Timothy M. Ritty**, Ph.D., assistant professor of orthopaedic surgery, received the "New Investigator Research Award — Top Presentation Overall in N.I.R.A. Category" at the 2003 Orthopaedic Research Society National Meeting.

## Van Cleve

— from Page 1

better and St. Louis better. And he had fun, lots of fun. We were happier just being around him.

"We are all very fortunate to have shared this planet and this community with such a man. His life continues to be our blessing."

Van Cleve served as a personal lawyer for more than 25 years for former U.S. Sen. Bill Bradley, D-N.J., a lifelong friend.

"He was a good man," Bradley said, "a good man who lived his own truth with dignity and shared his own life with generosity; a man who remembered those who had less, even as he advised those who had more; a man who built things with vision and fierce determination and bequeathed them with joy and great caring."

Named a life trustee for the University in 1995, his board work was extensive and incredibly dedicated. He served on the Executive Committee for 18 years, and on the Nominating and Medical Finance committees during his nearly 20-year tenure as a trustee. His committee work spanned all of the 15 standing committees of the board.

Van Cleve's leadership and guidance for the School of Law was remarkable.

He was the founding chair of its National Council and a member of the advisory body from its inception. He played a key role in the law school's "Building for a New Century" campaign, serving as the executive vice chair of the cabinet and generously supporting the construction of Anheuser-Busch Hall.

During his studies at the law school, he met his future wife, the former Georgia Hess Dunbar, then an undergraduate in Arts & Sciences.

The history of Van Cleve's rise in the law firm Bryan Cave LLP parallels that of the firm's rise to prominence.

When he joined Bryan Cave in 1958, he was its 13th lawyer. He became managing partner in 1973 and assumed the chair in 1983.

When he retired from management duties in 1994, he had overseen the expansion of Bryan Cave from a local law office to one that was international in stature, with more than 550 lawyers and nine offices throughout the United States, as well as seven overseas offices.

The University recognized Van Cleve's outstanding service and accomplishments in many ways. In 1992, he received the School of Law's Distinguished Alumni Award, and in 1996 he was given the William Greenleaf Eliot Society "Search" Award.

He was elected an honorary member of the Order of the Coif in 1985. The University bestowed on him its highest recognition with an honorary Doctor of Laws degree at the 2001 Commencement.

John R. Bowen, Ph.D., of the Department of Anthropology, is the Dunbar-Van Cleve Professor in Arts & Sciences, established by the Van Cleves in 1999.

A memorial service was held March 3 at Graham Chapel.

In addition to his wife, survivors include sons Peter, Robert and Emory; daughter Sarah Van Doren; and seven grandchildren.

Memorial contributions may be made to Washington University, Campus Box 1082, St. Louis, MO 63130.



**Walker honored via symposium** Robert M. Walker, Ph.D. (left), professor of physics in Arts & Sciences, visits with John F. McDonnell, chairman of the University's Board of Trustees and retired chairman of the board of McDonnell Douglas Corp., at the Robert M. Walker Symposium held on the Hilltop Campus March 6-7. The symposium paid tribute to Walker's career and consisted of invited talks and contributed posters that covered a wide array of scientific topics. Walker was the first director of the McDonnell Center for the Space Sciences, established in 1975. He held that position for nearly 25 years, until his retirement in 1999.

## Obituaries

### Summers, 82

**Joseph Holmes Summers Sr.**, 82, died Monday, Feb. 3, 2003, after a short illness at Highland Hospital in Rochester, N.Y. Summers was an English professor in Arts & Sciences from 1959-1969 and chaired the department before moving to the University of Rochester.

### Williams, 76

**George H. Williams**, former electrician and electrical foreman in the Department of Facilities and Management Planning, died Sunday, Feb. 23, 2003. He was 76. After 31 years of service, Williams retired from the University in 1991.



**Serving our cities** Francis Slay (left), mayor of St. Louis, speaks with Shanti K. Khinduka, Ph.D., dean of the George Warren Brown School of Social Work and the George Warren Brown Distinguished University Professor, before Slay delivered the lecture "Serving Our Cities: The Need for Public-Private Partnership" recently in Brown Hall Lounge. Slay's address was part of the GWB spring lecture series, which addresses a broad spectrum of social issues from the working poor to welfare reform.

## Campus Authors

Rebecca Messbarger, Ph.D., assistant professor of Italian in Arts & Sciences

### *The Century of Women: Representations of Women in Eighteenth-Century Italian Public Discourse*

(University of Toronto Press, 2002)

**E**ighteenth-century Italian playwright Pietro Chiari designated the age in which he lived "the century of women" — an age when women gained considerable power through education and admission to various academic positions and professions.

*The Century of Women: Representations of Women in Eighteenth-Century Italian Public Discourse* by Rebecca Messbarger, Ph.D., assistant professor of Italian in Arts & Sciences, is structured as an extended disputation.

It tells the tales of five paradigmatic and ideologically divergent 18th-century Italian texts by male and female authors whose leitmotifs are women. These include an academic debate, a scientific tract, an oration, an Enlightenment journal and a fashion magazine.

Analysis focuses on the specific ways in which the exigencies of the "new science" and the burgeoning Enlightenment project founded on rational civil law, secular moral philoso-

phy and utilitarian social ethics forced a transformation in the formal controversy about women.

By uncovering the characteristics of the expansive dominant discourse about women among Italian Enlightenment thinkers and of the counter-discourse

women authors produced to assert their own distinct authority over constructions of femininity and the public sphere, this study reconceives 18th-century Italian culture and rectifies misconceptions about Italy's position and influence within the literary republic of the European Enlightenment.

Groundbreaking and original, this study is the first to examine the contribution of women to the Republic of Letters of the settecento and will revise prevailing notions of 18th-century Italian culture and academia.

"I was originally drawn to this subject after reading a chapter in Giulio Natali's influential study of the Italian Enlightenment (*Il Settecento*, 1929) outlining women's new authority within the Republic of Letters of the settecento," Messbarger said. "After searching for more comprehensive and current analysis of this distinctive

aspect of the settecento, I discovered that it had been largely overlooked by historians and literary scholars.

"Italian women's expanding influence and the attributes and cultural consequences of their rejoinders to the 'woman question' are the primary focus of this book."

In the book, Messbarger contrasts women's strictly limited access to official academic centers in France, England and other European countries with the institutional sanction secured by numerous learned Italian women.

Although French and English women intellectuals asserted their authority in the shadow academic world of the salon because they were barred from native academies and universities, across the Italian peninsula women held seats in prestigious literary and scientific academies, a select few obtained university degrees and several attained university teaching positions.

The Italian Cultural Institute of Chicago recently nominated the book for the International Flaiano Prize ("Premio Flaiano di Italianistica"), awarded by the Ministry of Italian Culture.

— Neil Schoenherr



Messbarger



## Washington People

**U**nlike many who become physicians, Joan L. Luby, M.D., was not particularly drawn to math and science. She was more interested in the liberal arts.

At Brown University, her major was something she designed called "Poetry and Science," but in spite of her attraction to art, she always knew she wanted to be a psychiatrist.

"When I went to medical school at Wayne State University, my sole purpose was to become a psychiatrist," says Luby, assistant professor of child psychiatry, founder and director of the School of Medicine's Early Emotional Development Program, and director of residency training in child psychiatry.

"A lot of my rotations during medical school were very painful. I wasn't exactly 'biding my time' because no med student ever does that — there's way too much work to do — but I would say that I suffered through a number of rotations before I could get to



Joan Luby, M.D., assistant professor of child psychiatry, founder and director of the School of Medicine's Early Emotional Development Program, and director of residency training in child psychiatry, demonstrates to chief fellow Bryan Sewing how her team uses "puppet interviews" to diagnose clinical depression in very young children.

## Psychiatry in the nursery

Joan L. Luby looks 'behind the door' to identify, treat children with psychiatric illnesses

By JIM DRYDEN

the good part."

Psychiatry had attracted her since childhood. Luby's father, Elliot D. Luby, M.D., is a psychiatrist. A graduate of the School of Medicine, he was a forerunner in biological psychiatric research on schizophrenia.

But his biggest influence on his daughter came from the fact that he brought his work home — literally.

"He actually would see patients in our home," she recalls. "When I was growing up, patients came to the house and went behind the door in this room with my father, and I was fascinated by what was happening in there. I think I've spent much of my career pursuing what was going on behind that door."

The other thing Luby always wanted to do was to work with kids. She started baby-sitting when she was very young. During junior high, she and a friend started an informal summer camp for young children in the neighborhood.

Since she knew she wanted to be a psychiatrist and that she loved kids, child psychiatry was a natural fit.

What's unusual about Luby isn't that she works with kids. It's the age of those kids. Most of her patients are 2-5 years old.

### A 'play' doctor

After medical school, Luby was an intern at Sinai Hospital in Detroit. Ironically, after her single-minded pursuit of psychiatry, she really enjoyed internal medicine.

But psychiatry remained her first love, and in 1986, she arrived at Stanford University School of Medicine as a resident. It was

there that she started working with very young children, and she began a fellowship in child psychiatry in 1988.

"Joan was fantastic," recalls Anne Benham, M.D., clinical professor of psychiatry at Stanford and Luby's mentor there. "Infant psychiatry is a unique and complicated field because you can't depend on the patient to tell you exactly what's wrong."

"But Joan was an excellent clinician and very open-minded and scholarly. She was just extraordinarily capable."

Luby liked life at Stanford, and when her fellowship was completed she would have stayed. But her husband at that time — who also is a Washington University psychiatrist — wanted to come to St. Louis.

Luby agreed to the move, knowing that although there was little foundation in her area of interest, there was potential for growth. When she arrived in St. Louis, she immediately opened a new infant/preschool clinic.

That was 1990, and most of her new colleagues weren't quite sure how psychiatry connected with infants and preschoolers.

Many developmental psychologists had even argued that very young children could not have psychiatric illnesses. Their theories purported that only when children got older and started school could attention deficit hyperactivity disorder, oppositional defiant disorder or depression even occur, let alone be diagnosed.

But over the years, Luby's research has managed to contradict many of those developmental "facts."

In addition, parents, doctors and day-care providers are increasingly more aware of the early signs of psychiatric illness in very young children.

Another factor is that so many households now have two parents who work full-time, and kids enter day care at a younger age. That makes it possible to detect problems earlier.

"Children are in structured, preschool-like settings earlier and earlier," Luby says. "A lot of our referrals to the infant/preschool clinic are kids who have been kicked out of their preschool or their daycare at the age of 2 or 3."

She says that when a very young child develops a psychiatric disorder, it does more than affect his or her mood. Because children

face so many developmental hurdles between birth and age 5, psychiatric disorders can impair children's normal patterns of development.

"The brain is undergoing rapid change early in life," Luby says. "And there is a steep developmental trajectory that goes along with it, which is one of the reasons it's incredibly important to diagnose and treat these disorders early on."

Ah, but there's the tricky part. Diagnosing depression in a 3-year-old is a lot different than in an adult or even an older child.

One technique that Luby has used is a "puppet interview." Children are asked about their feelings by observing two puppets talking with one another. The puppets discuss how they feel, and the children need only to point to the puppet that best expresses their own emotions.

That's one example of how diagnosing and treating psychiatric illness in a 3-year-old is a bit different. Usually, it involves both clinical skill and play.

"I tell the trainees that you can't be an infant psychiatrist if you don't know how to play," Luby says. "That's really a prerequisite for the job. Part of it involves being a professional playmate."

But that doesn't mean it's not serious work. Luby has published groundbreaking research about depression in preschoolers. Using the puppet interview and other tools, her team has learned that it is possible to demonstrate that very young children can become clinically depressed.

And unlike some research that has suggested that secondary or "masked" symptoms — such as physical pain like a stomachache — can signal psychiatric problems, Luby has shown that depressed kids can be diagnosed primarily because they don't seem to enjoy activities and play as much as typical toddlers.

"In part because of difficulties in studying infants and young children, this area of psychiatry has been slow to develop," says Charles F. Zorumski, M.D., the Samuel B. Guze Professor and chair of the Department of Psychiatry. "But it has become increasingly clear that events that occur very early in life have a significant impact on subsequent development of both childhood and adult-onset psychiatric disorders. Joan is doing truly significant work in this field."

### Doctor Mom

Luckily for someone working with preschoolers, 3 is Luby's favorite age. Her own children are

a bit older than that now, so she has the good fortune to watch them grow into adolescence while continuing to play with 3-year-olds on a regular basis.

She says psychiatrist/mothers face the same parenting challenges as everyone else, and although she isn't sure whether her training as a child psychiatrist helps her parenting skills, she hopes it does.

"When I'm in the role of mother, I'm just like any other mother," she says. "But on the other hand, I think if you asked my kids, they might tell you that a bit of the child psychiatrist can sometimes spill over into home life."

And it is a complicated home life these days.

It's not only running kids to activities and events or trying (and mostly failing) to get them to eat new recipes she's picked up as part of her cooking avocation. There's also the fact that Luby's husband, Steven Jay Hirsch, Ph.D., teaches and researches Latin-American history at the University of Pittsburgh.

That means he must commute between Pittsburgh and St. Louis on weekends. Or sometimes, Luby and the kids make the trip to Pennsylvania.

But if nothing else, their relationship proves the importance of childhood influences later in life. Before they were re-acquainted as adults, Hirsch was Luby's boyfriend in sixth grade.

With a twinkle in her eye, Luby describes their reunion as adults with a nod to the importance of childhood.

"I am living proof that those early developmental experiences are absolutely formative," she says.

### Joan L. Luby, M.D.

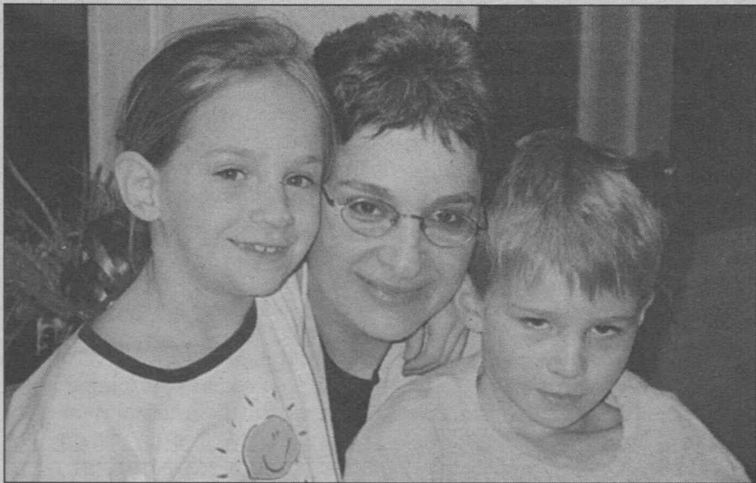
**Birthday:** Feb. 20, 1959, in Detroit

**Education:** A.B. with honors, "Poetry and Science," Brown University, 1981; M.D., Wayne State University School of Medicine, 1985

**University positions:** Assistant professor of child psychiatry; director of the Early Emotional Development Program; director of residency training in child psychiatry

**Family:** Husband, Steven Jay Hirsch, Ph.D.; children, Leah Newcomer, 11, and Adam Newcomer, 9

**Interests:** Politics, commuting between St. Louis and Pittsburgh (where her husband lives), the zoo, the City Museum, kids' soccer games. And, "I love to cook. I'm constantly working on my kids to push them in the direction of eating new things."



Joan L. Luby and her children, Leah Newcomer and Adam Newcomer.